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Supporting Table 1. Age specific incidence rates per 100,000 per year for leg fractures: femur (not neck), neck of femur, lower leg, and ankle in post-menopausal women

	Person Years	Femur (not neck)		Neck of femur		Lower leg		Ankle	
		Incident cases	Incidence rate per 100,000 (95% CI)	Incident cases	Incidence rate per 100,000 (95% CI)	Incident cases	Incidence rate per 100,000 (95% CI)	Incident cases	Incidence rate per 100,000 (95% CI)
Age (years)									
50-54	469,406	20	5.4 (2.4-8.5)	86	16.2 (11.9-20.6)	79	19.8 (14.1-25.6)	250	50.8 (42.9-58.7)
55-59	3,376,760	148	4.3 (3.6-5.0)	873	25.3 (23.6-26.9)	669	19.6 (18.1-21.1)	2250	65.6 (62.9-68.4)
60-64	4,178,337	290	7.0 (6.2-7.8)	2222	53.4 (51.1-55.6)	981	23.5 (22.0-24.9)	3401	81.5 (78.7-84.2)
65-69	2,824,762	313	11.5 (10.2-12.8)	2662	98.2 (94.4-102.0)	838	29.7 (27.7-31.8)	2540	89.8 (86.3-93.4)
70-74	1,273,714	292	25.2 (22.1-28.2)	2665	227.4 (218.3-236.5)	501	40.3 (36.6-44.0)	1357	109.6 (103.5-115.8)
75-79	231,944	80	30.2 (22.6-37.8)	1027	484.2 (446.9-521.4)	112	50.8 (38.2-63.4)	254	1116.0 (97.6-134.9)

Supporting Table 2. Age specific incidence rates per 100,000 per year for arm fractures: forearm (not wrist), wrist, and humerus in post-menopausal women

Age (years)	Forearm (not wrist)			Wrist		Humerus	
	Person Years	Incident cases	Incidence rate per 100,000 (95% CI)	Incident cases	Incidence rate per 100,000 (95% CI)	Incident cases	Incidence rate per 100,000 (95% CI)
50-54	469,406	62	12.3 (8.2-16.3)	272	50.7 (43.4-57.9)	60	12.9 (8.7-17.1)
55-59	3,376,760	544	15.9 (14.6-17.3)	2761	80.2 (77.2-83.2)	572	16.4 (15.1-17.8)
60-64	4,178,337	893	21.4 (20.0-22.8)	4938	118.3 (115.0-121.6)	1334	32.0 (30.3-33.7)
65-69	2,824,762	794	28.8 (26.7-30.8)	4487	161.9 (157.1-166.7)	1387	50.1 (47.5-52.8)
70-74	1,273,714	471	37.9 (34.3-41.5)	2674	217.2 (208.5-225.8)	1158	95.6 (89.7-101.4)
75-79	231,944	134	55.6 (44.2-67.0)	627	285.6 (256.4-314.8)	337	153.8 (132.9-174.7)

Supporting Table 3. Adjusted^a relative risks of femur (not neck), neck of femur, lower leg, and ankle fractures in women, cross-classified by both BMI and strenuous physical activity, and BMI and any activity

BMI (kg/m ²)	Strenuous Physical Activity				Any activity				<i>P</i> for interaction
	Rarely/never active	At most once per week RR (gsCI)	More than once per week RR (gsCI)	<i>P</i> for interaction	Rarely/never active	At most once per week RR (gsCI)	2-3 times per week RR (gsCI)	More than 3 times per week RR (gsCI)	
Femur (not neck)									
<25.0	1.00 (0.88-1.13) ^c	0.67 (0.56-0.81)	0.61 (0.49-0.76)	.13 ^b	1.00 (0.82-1.22) ^c	0.58 (0.45-0.75)	0.56 (0.44-0.71)	0.81 (0.69-0.96)	.52 ^c
25.0-29.9	0.94 (0.83-1.08)	0.61 (0.49-0.76)	0.72 (0.56-0.93)		0.85 (0.69-1.03)	0.59 (0.46-0.75)	0.67 (0.53-0.85)	0.81 (0.67-0.98)	
30.0+	1.18 (1.01-1.38)	1.16 (0.90-1.50)	0.80 (0.54-1.18)		1.16 (0.95-1.42)	0.93 (0.72-1.21)	0.79 (0.56-1.10)	0.91 (0.68-1.21)	
Neck of femur									
<25.0	1.00 (0.96-1.04) ^c	0.75 (0.71-0.79)	0.67 (0.63-0.72)	.04 ^b	1.00 (0.94-1.06) ^c	0.81 (0.76-0.87)	0.73 (0.68-0.78)	0.84 (0.80-0.88)	.05 ^c
25.0-29.9	0.61 (0.58-0.64)	0.49 (0.46-0.53)	0.46 (0.42-0.50)		0.58 (0.53-0.62)	0.49 (0.45-0.53)	0.51 (0.47-0.55)	0.54 (0.50-0.58)	
30.0+	0.47 (0.43-0.50)	0.43 (0.38-0.48)	0.36 (0.30-0.43)		0.46 (0.41-0.50)	0.39 (0.34-0.44)	0.39 (0.34-0.46)	0.47 (0.42-0.53)	
Lower Leg									
<25.0	1.00 (0.92-1.09) ^c	0.95 (0.86-1.05)	0.99 (0.89-1.11)	.52 ^b	1.00 (0.87-1.15) ^c	0.88 (0.77-1.01)	0.80 (0.71-0.91)	1.01 (0.92-1.11)	.52 ^c
25.0-29.9	1.07 (0.98-1.16)	1.12 (1.01-1.24)	1.07 (0.93-1.22)		1.09 (0.96-1.24)	1.03 (0.91-1.17)	0.89 (0.78-1.02)	1.09 (0.98-1.22)	
30.0+	1.17 (1.05-1.30)	1.11 (0.94-1.31)	1.40 (1.16-1.70)		1.20 (1.04-1.38)	1.10 (0.93-1.29)	0.95 (0.78-1.16)	1.23 (1.04-1.46)	
Ankle									
<25.0	1.00 (0.95-1.05) ^c	0.97 (0.91-1.03)	1.03 (0.96-1.10)	.05 ^b	1.00 (0.92-1.09) ^c	0.88 (0.81-0.95)	0.91 (0.85-0.98)	0.96 (0.92-1.03)	.58 ^c
25.0-29.9	1.40 (1.34-1.47)	1.48 (1.40-1.56)	1.49 (1.39-1.60)		1.35 (1.25-1.45)	1.31 (1.22-1.40)	1.30 (1.21-1.39)	1.47 (1.39-1.56)	
30.0+	1.63 (1.53-1.72)	1.80 (1.67-1.95)	1.53 (1.36-1.71)		1.52 (1.40-1.65)	1.54 (1.41-1.67)	1.49 (1.35-1.65)	1.61 (1.47-1.76)	

BMI indicates body mass index; gsCI, group-specific confidence interval for RR; and RR, relative risk.

^a Adjusted for study region, age, socio-economic status, smoking, alcohol consumption, use of hormone therapy, height, heart disease/thrombosis, diabetes mellitus, thyroid disease, rheumatoid arthritis/osteoarthritis, and exercise

^b Likelihood ratio test for interaction between categories of BMI and strenuous activity

^c Likelihood ratio test for interaction between categories of BMI and any activity.

Supporting Table 4. Adjusted^a relative risks of forearm (not wrist), wrist, and humerus fractures in women, cross-classified by both BMI and strenuous physical activity, and BMI and any activity

BMI (kg/m ²)	Strenuous Physical Activity				Any Activity				<i>P</i> for interaction
	Rarely/never active	At most once per week RR (gsCI)	More than once per week RR (gsCI)		Rarely/never active	At most once per week RR (gsCI)	2-3 times per week RR (gsCI)	More than 3 times per week RR (gsCI)	
Forearm (not wrist)									
<25.0	1.00 (0.92-1.08)	0.93 (0.84-1.02)	1.02 (0.92-1.13)	.54 ^b	1.00 (0.87-1.15)	1.09 (0.96-1.23)	0.86 (0.76-0.97)	1.10 (1.00-1.20)	.03 ^c
25.0-29.9	0.83 (0.75-0.91)	0.78 (0.69-0.88)	0.80 (0.63-0.93)		0.88 (0.76-1.02)	0.85 (0.74-0.98)	0.90 (0.79-1.03)	0.82 (0.72-0.93)	
30.0+	0.89 (0.79-1.00)	0.72 (0.59-0.87)	0.72 (0.55-0.93)		0.92 (0.78-1.09)	0.77 (0.63-0.93)	0.85 (0.68-1.05)	0.75 (0.60-0.93)	
Wrist									
<25.0	1.00 (0.97-1.03)	0.99 (0.95-1.03)	1.03 (0.99-1.08)	.83 ^b	1.00 (0.94-1.06)	0.90 (0.86-0.95)	0.92 (0.88-0.96)	0.95 (0.92-0.99)	.88 ^c
25.0-29.9	0.76 (0.75-0.81)	0.79 (0.75-0.83)	0.80 (0.75-0.85)		0.76 (0.71-0.81)	0.73 (0.69-0.77)	0.73 (0.69-0.78)	0.74 (0.70-0.78)	
30.0+	0.61 (0.58-0.65)	0.61 (0.56-0.67)	0.59 (0.53-0.67)		0.59 (0.54-0.64)	0.56 (0.51-0.62)	0.55 (0.49-0.61)	0.60 (0.54-0.66)	
Humerus									
<25.0	1.00 (0.94-1.07)	0.92 (0.85-1.00)	0.85 (0.77-0.93)	.84 ^b	1.00 (0.90-1.11)	0.95 (0.85-1.05)	0.92 (0.83-1.01)	0.96 (0.89-1.04)	.76 ^c
25.0-29.9	1.03 (0.97-1.10)	0.90 (0.82-0.99)	0.84 (0.74-0.94)		0.97 (0.87-1.08)	0.92 (0.83-1.02)	0.90 (0.81-1.01)	1.04 (0.95-1.14)	
30.0+	1.17 (1.08-1.27)	1.10 (0.96-1.25)	0.90 (0.75-1.09)		1.08 (0.96-1.22)	1.09 (0.95-1.24)	1.01 (0.86-1.18)	1.23 (1.08-1.41)	

BMI indicates body mass index; gsCI, group-specific confidence interval for RR; and RR, relative risk.

^a Adjusted for study region, age, socio-economic status, smoking, alcohol consumption, use of hormone therapy, height, heart disease/thrombosis, diabetes mellitus, thyroid disease, rheumatoid arthritis/osteoarthritis, and exercise

^b Likelihood ratio test for interaction between categories of BMI and strenuous activity

^c Likelihood ratio test for interaction between categories of BMI and any activity.

Supporting Table 5. Sensitivity analyses of hormone therapy for relative risk of femur (not neck), neck of femur, lower leg, and ankle fractures in post-menopausal women according to strenuous physical activity, and any activity ^a

	Femur (not neck)		Neck of femur		Lower leg		Ankle	
	Current users of hormone therapy	Never/past hormone therapy use	Current users of hormone therapy	Never/past hormone therapy use	Current users of hormone therapy	Never/past hormone therapy use	Current users of hormone therapy	Never/past hormone therapy use
	RR (95% gsCI)	RR (95% gsCI)	RR (95% gsCI)	RR (95% gsCI)	RR (95% gsCI)	RR (95% gsCI)	RR (95% gsCI)	RR (95% gsCI)
BMI (kg/m²)								
<20.0	1.44 (0.88-2.37)	1.87 (1.41-2.52)	1.80 (1.57-2.07)	1.96 (1.81-2.21)	0.88 (0.60-1.27)	1.28 (1.04-1.56)	0.64 (0.49-0.82)	0.66 (0.56-0.79)
20.0-24.9	1.00 (0.83-1.20)	1.00 (0.88-1.13)	1.00 (0.94-1.06)	1.00 (0.97-1.04)	1.00 (0.90-1.11)	1.00 (0.93-1.07)	1.00 (0.94-1.06)	1.00 (0.96-1.04)
25.0-29.9	1.01 (0.83-1.23)	1.06 (0.94-1.19)	0.69 (0.64-0.74)	0.67 (0.64-0.70)	1.11 (0.99-1.24)	1.11 (1.04-1.19)	1.48 (1.40-1.56)	1.37 (1.32-1.42)
30.0-34.9	1.07 (0.77-1.48)	1.30 (1.10-1.54)	0.59 (0.51-0.68)	0.52 (0.49-0.56)	1.37 (1.14-1.63)	1.19 (1.07-1.32)	1.95 (1.79-2.13)	1.54 (1.45-1.63)
35+	1.43 (0.88-2.33)	1.87 (1.51-2.33)	0.65 (0.51-0.83)	0.48 (0.42-0.54)	1.61 (1.21-2.15)	1.12 (0.94-1.32)	1.70 (1.44-2.01)	1.45 (1.32-1.59)
<i>P</i> _{heterogeneity}	.51	<.001	<.001	<.001	<.05	<.05	<.001	<.001
<i>P</i> _{interaction}		.75		.14		<.05		<.001
Strenuous Exercise								
Rarely/never (inactive)	1.00 (0.82-1.22)	1.00 (0.83-1.16)	1.00 (0.93-1.07)	1.00 (0.96-1.04)	1.00 (0.88-1.13)	1.00 (0.93-1.08)	1.00 (0.94-1.07)	1.00 (0.96-1.04)
At most once per week	0.83 (0.66-1.04)	0.66 (0.57-0.77)	0.81 (0.75-0.87)	0.77 (0.74-0.81)	1.09 (0.97-1.23)	0.95 (0.88-1.03)	0.94 (0.88-1.01)	1.06 (1.02-1.11)
More than once per week	0.76 (0.57-1.02)	0.67 (0.56-0.80)	0.69 (0.62-0.76)	0.70 (0.66-0.75)	1.26 (1.09-1.47)	0.95 (0.86-1.05)	1.02 (0.94-1.11)	1.04 (0.98-1.10)
<i>P</i> _{heterogeneity}	.25	<.001	<.001	<.001	.06	.57	.42	.12
<i>P</i> _{interaction}		.51		.56	.34	.08	.003	
Any Activity								
Rarely/never (inactive)	1.00 (0.76-1.32)	1.00 (0.86-1.16)	1.00 (0.90-1.11)	1.00 (0.95-1.06)	1.00 (0.83-1.20)	1.00 (0.90-1.11)	1.00 (0.91-1.10)	1.00 (0.94-1.07)
At most once per week	0.70 (0.53-0.91)	0.67 (0.56-0.80)	0.85 (0.78-0.94)	0.84 (0.79-0.89)	0.92 (0.79-1.06)	0.90 (0.82-0.99)	1.01 (0.93-1.09)	0.93 (0.88-0.98)
2-3 times per week	0.48 (0.34-0.67)	0.70 (0.59-0.83)	0.93 (0.85-1.02)	0.75 (0.71-0.809)	0.71 (0.61-0.84)	0.84 (0.76-0.93)	0.96 (0.88-1.04)	0.95 (0.90-1.00)
More than 3 times per week	0.90 (0.72-1.12)	0.83 (0.72-0.95)	1.03 (0.95-1.11)	0.83 (0.79-0.87)	0.86 (0.75-0.98)	1.05 (0.97-1.14)	1.15 (1.07-1.23)	1.00 (0.95-1.04)
<i>P</i> _{heterogeneity}	<.05	<.05	<.05	<.001	<.05	<.001	<.05	.14
<i>P</i> _{interaction}		.22		<.05	.62		.19	

BMI indicates body mass index; gsCI, group-specific confidence interval for RR; and RR, relative risk.

^a Adjusted for study region, age, socio-economic status, smoking, alcohol consumption, height, heart disease/thrombosis, diabetes mellitus, thyroid disease, rheumatoid arthritis/osteoarthritis, and BMI (for adjustment of strenuous activity and any activity), strenuous activity (for adjustment of BMI and any activity), or any activity (for adjustment of BMI and strenuous activity).

Supporting Table 6. Sensitivity analyses of hormone therapy for relative risk of forearm (not wrist), wrist, and humerus fractures in post-menopausal women according to BMI, strenuous physical activity, and any activity^a

	Forearm (not wrist)		Wrist		Humerus	
	Current users of hormone therapy RR (95% gsCI)	Never/past hormone therapy use RR (95% gsCI)	Current users of hormone therapy RR (95% gsCI)	Never/past hormone therapy use RR (95% gsCI)	Current users of hormone therapy RR (95% gsCI)	Never/past hormone therapy use RR (95% gsCI)
BMI (kg/m²)						
<20.0	1.41 (1.03-1.91)	1.44 (1.19-1.73)	1.05 (0.90-1.22)	1.00 (1.16-1.37)	1.25 (0.96-1.63)	1.19 (1.00-1.40)
20.0-24.9	1.00 (0.90-1.12)	1.00 (0.94-1.07)	1.00 (0.95-1.05)	1.00 (0.97-1.03)	1.00 (0.91-1.09)	1.00 (0.95-1.06)
25.0-29.9	0.99 (0.87-1.11)	0.79 (0.74-0.85)	0.80 (0.75-0.84)	0.80 (0.77-0.82)	1.10 (1.00-1.21)	1.00 (0.95-1.06)
30.0-34.9	0.91 (0.72-1.15)	0.84 (0.75-0.95)	0.67 (0.60-0.75)	0.63 (0.60-0.67)	1.25 (1.07-1.47)	1.11 (1.02-1.21)
35+	0.73 (0.46-1.15)	0.82 (0.68-0.99)	0.65 (0.53-0.80)	0.54 (0.49-0.60)	1.52 (1.17-1.98)	1.25 (1.10-1.43)
<i>P</i> _{heterogeneity}	.15	<.001	<.001	<.001	<.05	<.001
<i>P</i> _{interaction}		.26		.19		.69
Strenuous Exercise						
Rarely/never (inactive)	1.00 (0.87-1.15)	1.00 (0.93-1.08)	1.00 (0.94-1.06)	1.00 (0.97-1.03)	1.00 (0.90-1.11)	1.00 (0.95-1.06)
At most once per week	1.15 (1.02-1.30)	0.85 (0.78-0.92)	1.03 (0.97-1.09)	1.00 (0.96-1.03)	0.99 (0.90-1.10)	0.89 (0.84-0.95)
More than once per week	1.06 (0.90-1.24)	0.95 (0.86-1.05)	1.05 (0.98-1.13)	1.02 (0.98-1.07)	0.82 (0.71-0.94)	0.83 (0.76-0.90)
<i>P</i> _{heterogeneity}	.33	<.05	.60	.58	<.05	<.001
<i>P</i> _{interaction}		<.05		.81		.52
Any Activity						
Rarely/never (inactive)	1.00 (0.81-1.24)	1.00 (0.89-1.12)	1.00 (0.91-1.09)	1.00 (0.95-1.05)	1.00 (0.86-1.16)	1.00 (0.92-1.09)
At most once per week	0.92 (0.78-1.09)	1.01 (0.92-1.11)	0.85 (0.79-0.92)	0.95 (0.91-0.99)	0.83 (0.73-0.95)	0.99 (0.92-1.07)
2-3 times per week	0.99 (0.84-1.16)	0.85 (0.77-0.94)	0.83 (0.77-0.89)	0.97 (0.93-1.01)	0.89 (0.78-1.01)	0.93 (0.86-1.00)
More than 3 times per week	1.06 (0.93-1.22)	0.94 (0.87-1.03)	0.93 (0.87-0.99)	0.97 (0.93-1.00)	0.95 (0.85-1.07)	1.06 (0.99-1.13)
<i>P</i> _{heterogeneity}	.63	.09	<.001	.53	.23	.07
<i>P</i> _{interaction}		.11		<.05		.44

BMI indicates body mass index; gsCI, group-specific confidence interval for RR; and RR, relative risk.

^a Adjusted for study region, age, socio-economic status, smoking, alcohol consumption, height, heart disease/thrombosis, diabetes mellitus, thyroid disease, rheumatoid arthritis/osteoarthritis, and BMI (for adjustment of strenuous activity and any activity), strenuous activity (for adjustment of BMI and any activity), or any activity (for adjustment of BMI and strenuous activity).

Supporting Table 7. Sensitivity analyses of adjusted^a relative risks of femur (not neck), neck of femur, lower leg, and ankle fractures in post-menopausal women according to BMI, stratified by age-bands.

BMI (kg/m ²)	Femur (not neck)			Neck of Femur			Lower Leg			Ankle		
	Population at risk	Incident cases	Adjusted RR (95% gsCI)	Population at risk	Incident cases	Adjusted RR (95% gsCI)	Population at risk	Incident cases	Adjusted RR (95% gsCI)	Population at risk	Incident cases	Adjusted RR (95% gsCI)
50-64.9 years												
<20.0	40 143	29	1.83 (1.27-2.65)	40 143	336	2.11 (1.89-2.35)	40 142	73	1.21 (0.96-1.52)	40 142	104	0.61 (0.50-0.74)
20.0-24.9	476 464	168	1.00 (0.85-1.17)	476 468	1646	1.00 (0.95-1.05)	476 471	684	1.00 (0.92-1.08)	476 466	2004	1.00 (0.96-1.05)
25.0-29.9	398 181	145	1.01 (0.86-1.18)	398 184	857	0.62 (0.58-0.67)	398 182	626	1.15 (1.07-1.25)	398 188	2373	1.51 (1.45-1.57)
30.0-34.9	141 028	67	1.19 (0.93-1.51)	141 028	231	0.43 (0.38-0.50)	141 028	240	1.23 (1.08-1.40)	141 033	1024	1.87 (1.76-1.99)
35+	57 956	46	1.71 (1.26-2.31)	57 956	101	0.40 (0.33-0.49)	57 958	99	1.16 (0.94-1.41)	57 956	376	1.65 (1.49-1.83)
<i>P_{heterogeneity}</i>			<.05			<.001			<.05			<.001
65-69.9												
<20.0	26 106	16	1.77 (1.08-2.90)	26 122	240	2.05 (1.81-2.34)	26 107	26	0.96 (0.65-1.41)	26 106	46	0.65 (0.48-0.86)
20.0-24.9	322 792	102	1.00 (0.82-1.23)	322 850	1253	1.00 (0.94-1.06)	322 797	311	1.00 (0.89-1.12)	322 799	875	1.00 (0.93-1.07)
25.0-29.9	283 311	114	1.15 (0.96-1.38)	283 340	829	0.71 (0.67-0.76)	283 319	315	1.12 (1.00-1.24)	283 328	1055	1.35 (1.27-1.43)
30.0-34.9	98 929	53	1.36 (1.04-1.80)	98 941	232	0.53 (0.46-0.60)	98 932	134	1.30 (1.09-1.55)	98 934	416	1.50 (1.36-1.66)
35+	37 785	26	1.58 (1.06-2.35)	37 789	90	0.50 (0.40-0.61)	37 784	50	1.21 (0.91-1.61)	37 784	144	1.36 (1.15-1.61)
<i>P_{heterogeneity}</i>			.10			<.001			.15			<.001
70+												
<20.0	13 102	20	1.60 (1.03-2.49)	13 114	272	1.53 (1.36-1.73)	13 100	24	1.16 (0.78-1.74)	13 099	42	0.83 (0.61-1.13)
20.0-24.9	163 770	140	1.00 (0.84-1.19)	163 836	1915	1.00 (0.95-1.05)	163 762	233	1.00 (0.87-1.15)	163 786	599	1.00 (0.92-1.09)
25.0-29.9	152 767	135	1.01 (0.85-1.19)	152 824	1271	0.71 (0.67-0.74)	152 766	234	1.04 (0.92-1.18)	152 778	677	1.22 (1.14-1.32)
30.0-34.9	53 156	60	1.22 (0.94-1.57)	53 180	418	0.65 (0.59-0.72)	53 160	98	1.20 (0.98-1.47)	53 162	235	1.25 (1.09-1.42)
35+	19 017	36	2.02 (1.43-2.84)	19 020	136	0.61 (0.52-0.73)	19 019	42	1.40 (1.02-1.92)	19 019	86	1.36 (1.09-1.64)
<i>P_{heterogeneity}</i>			<.05			<.001			.30			<.001

BMI indicates body mass index; gsCI, group-specific confidence interval for RR; and RR, relative risk.

^a Adjusted for study region, age, socio-economic status, smoking, alcohol consumption, height, heart disease/thrombosis, diabetes mellitus, thyroid disease, rheumatoid arthritis/osteoarthritis, strenuous activity and any activity.

Supporting Table 8. Sensitivity analyses of adjusted^a relative risks of forearm (not wrist), wrist and humerus fracture in post-menopausal women according to BMI, stratified by age-bands.

BMI (kg/m ²)	Forearm (not wrist)			Wrist			Humerus		
	Population at risk	Incident cases	Adjusted RR (95% gsCI)	Population at risk	Incident cases	Adjusted RR (95% gsCI)	Population at risk	Incident cases	Adjusted RR (95% gsCI)
50-64.9 years									
<20.0	40 142	83	1.40 (1.13-1.75)	40 144	363	1.11 (1.00-1.23)	40 146	93	1.30 (1.06-1.59)
20.0-24.9	476 466	681	1.00 (0.92-1.08)	476 468	3955	1.00 (0.97-1.03)	476 467	784	1.00 (0.93-1.08)
25.0-29.9	398 181	473	0.88 (0.81-0.96)	398 192	2612	0.82 (0.78-0.85)	398 184	674	1.07 (0.99-1.15)
30.0-34.9	141 027	171	0.90 (0.77-1.04)	141 031	735	0.65 (0.60-0.70)	141 028	272	1.19 (1.05-1.34)
35+	55 957	80	0.98 (0.78-1.23)	57 956	273	0.57 (0.51-0.65)	57 957	138	1.36 (1.14-1.62)
<i>P_{heterogeneity}</i>			<.05			<.001			<.05
65-69.9									
<20.0	26 105	45	1.49 (1.11-2.01)	26 119	214	1.24 (1.08-1.41)	26 112	60	1.29 (1.00-1.67)
20.0-24.9	322 811	360	1.00 (0.90-1.11)	322 844	2135	1.00 (0.96-1.05)	322 815	535	1.00 (0.91-1.09)
25.0-29.9	283 314	245	0.75 (0.66-0.85)	283 362	1529	0.79 (0.75-0.83)	283 341	497	1.02 (0.94-1.12)
30.0-34.9	98 933	116	0.99 (0.82-1.19)	98 936	446	0.65 (0.59-0.71)	98 933	195	1.11 (0.97-1.29)
35+	37 786	25	0.56 (0.37-0.83)	37 788	137	0.53 (0.45-0.63)	37 787	96	1.41 (1.15-1.74)
<i>P_{heterogeneity}</i>			<.001			<.001			<.05
70+									
<20.0	13 099	33	1.42 (1.00-2.00)	13 109	182	1.34 (1.15-1.55)	13 104	54	0.99 (0.76-1.30)
20.0-24.9	163 764	280	1.00 (0.88-1.13)	163 816	1617	1.00 (0.95-1.05)	163 789	614	1.00 (0.92-1.09)
25.0-29.9	152 765	234	0.88 (0.77-1.00)	152 797	1184	0.77 (0.73-0.82)	152 788	586	1.00 (0.93-1.09)
30.0-34.9	53 154	59	0.63 (0.48-0.81)	53 162	327	0.62 (0.56-0.69)	53 164	228	1.09 (0.95-1.25)
35+	19 018	27	0.82 (0.56-1.21)	19 022	100	0.56 (0.46-0.68)	19 021	85	1.16 (0.93-1.44)
<i>P_{heterogeneity}</i>			<.05			<.001			.67

BMI indicates body mass index; gsCI, group-specific confidence interval for RR; and RR, relative risk.

^a Adjusted for study region, age, socio-economic status, smoking, alcohol consumption, height, heart disease/thrombosis, diabetes mellitus, thyroid disease, rheumatoid arthritis/osteoarthritis, strenuous activity and any activity.

Supporting Table 9. Sensitivity analyses of adjusted^a relative risks femur (not neck), neck of femur, lower leg, and ankle fracture in post-menopausal women according to strenuous activity, stratified by age-bands.

Strenuous activity	Femur (not neck)			Neck of Femur			Lower Leg			Ankle		
	Population at risk	Incident cases	Adjusted RR (95% gsCI)	Population at risk	Incident cases	Adjusted RR (95% gsCI)	Population at risk	Incident cases	Adjusted RR (95% gsCI)	Population at risk	Incident cases	Adjusted RR (95% gsCI)
50-64.9												
Rarely/never (inactive)	529914	276	1.00 (0.85-1.18)	529915	1826	1.00 (0.94-1.06)	529918	821	1.00 (0.91-1.09)	529920	2771	1.00 (0.95-1.05)
At most once per week	345709	104	0.71 (0.59-0.87)	345711	815	0.73 (0.68-0.78)	345710	519	0.99 (0.91-1.08)	345713	1816	1.01 (0.96-1.05)
More than once per week	238149	75	0.69 (0.54-0.87)	238153	530	0.64 (0.59-0.70)	238153	382	1.02 (0.92-1.14)	238152	1294	1.04 (0.98-1.10)
<i>P_{heterogeneity}</i>			<.05			<.001			.91			.64
65-69.9												
Rarely/never (inactive)	374225	199	1.00 (0.82-1.21)	374293	1567	1.00 (0.94-1.07)	374228	444	1.00 (0.89-1.13)	374243	1240	1.00 (0.93-1.07)
At most once per week	232448	71	0.83 (0.65-1.04)	232477	642	0.77 (0.71-0.83)	232460	220	0.95 (0.83-1.09)	232457	775	1.10 (1.02-1.18)
More than once per week	162250	41	0.66 (0.48-0.90)	162272	435	0.70 (0.64-0.78)	162251	172	1.02 (0.87-1.20)	162251	521	1.06 (0.96-1.16)
<i>P_{heterogeneity}</i>			.15			<.001			.77			.18
70+												
Rarely/never (inactive)	204344	258	1.00 (0.85-1.17)	204444	2444	1.00 (0.95-1.05)	204339	353	1.00 (0.87-1.14)	204356	865	1.00 (0.92-1.09)
At most once per week	114982	71	0.63 (0.50-0.80)	115021	927	0.83 (0.78-0.89)	114983	162	1.03 (0.88-1.20)	114995	456	1.04 (0.95-1.14)
More than once per week	82846	62	0.70 (0.54-0.91)	82509	642	0.75 (0.69-0.81)	82485	116	1.03 (0.85-1.25)	82493	318	0.98 (0.87-1.10)
<i>P_{heterogeneity}</i>			<.05			<.001			.96			.72

gsCI indicates group-specific confidence interval for RR; and RR indicates relative risk.

^a Adjusted for study region, age, socio-economic status, smoking, alcohol consumption, height, heart disease/thrombosis, diabetes mellitus, thyroid disease, rheumatoid arthritis/osteoarthritis, BMI and any activity.

Supporting Table 10. Sensitivity analyses of adjusted^a relative risks forearm (not wrist), wrist and humerus fracture in post-menopausal women according to strenuous activity, stratified by age-bands.

Strenuous activity	Forearm (not wrist)			Wrist			Humerus		
	Population at risk	Incident cases	Adjusted RR (95% gsCI)	Population at risk	Incident cases	Adjusted RR (95% gsCI)	Population at risk	Incident cases	Adjusted RR (95% gsCI)
50-64.9									
Rarely/never (inactive)	529911	700	1.00 (0.91-1.10)	529914	3535	1.00 (0.96-1.04)	529918	1027	1.00 (0.92-1.08)
At most once per week	345709	446	0.91 (0.83-1.00)	345715	2506	1.03 (0.99-1.07)	345713	560	0.87 (0.80-0.95)
More than once per week	238153	342	1.03 (0.91-1.16)	238162	1897	1.11 (1.06-1.17)	238151	374	0.82 (0.74-0.92)
<i>P_{heterogeneity}</i>			.22			<.05			<.05
65-69.9									
Rarely/never (inactive)	374237	426	1.00 (0.89-1.13)	374292	2201	1.00 (0.94-1.05)	374263	765	1.00 (0.91-1.10)
At most once per week	232459	221	0.87 (0.76-0.99)	232484	1325	0.98 (0.93-1.04)	232464	374	0.94 (0.85-1.04)
More than once per week	162253	144	0.76 (0.64-0.90)	162273	935	0.96 (0.89-1.02)	162261	244	0.83 (0.73-0.95)
<i>P_{heterogeneity}</i>			<.05			.60			.08
70+									
Rarely/never (inactive)	204328	328	1.00 (0.88-1.14)	204391	1805	1.00 (0.94-1.06)	204370	896	1.00 (0.92-1.09)
At most once per week	114983	162	0.97 (0.83-1.13)	115011	926	0.98 (0.92-1.05)	115004	408	0.94 (0.85-1.03)
More than once per week	82849	143	1.15 (0.92-1.43)	82504	679	0.94 (0.87-1.02)	82492	263	0.81 (0.72-0.92)
<i>P_{heterogeneity}</i>			.32			.45			<.05

gsCI indicates group-specific confidence interval for RR; and RR indicates relative risk.

^a Adjusted for study region, age, socio-economic status, smoking, alcohol consumption, height, heart disease/thrombosis, diabetes mellitus, thyroid disease, rheumatoid arthritis/osteoarthritis, BMI and any activity.

Supporting Table11. Sensitivity analyses of adjusted^a relative risks femur (not neck), neck of femur, lower leg, and ankle fracture in post-menopausal women according to any activity, stratified by age-bands.

Any activity	Femur (not neck)			Neck of Femur			Lower Leg			Ankle		
	Population at risk	Incident cases	Adjusted RR (95% gsCI)	Population at risk	Incident cases	Adjusted RR (95% gsCI)	Population at risk	Incident cases	Adjusted RR (95% gsCI)	Population at risk	Incident cases	Adjusted RR (95% gsCI)
50-64.9												
Rarely/never	213464	130	1.00 (0.83-1.20)	213464	790	1.00 (0.93-1.08)	213465	351	1.00 (0.90-1.11)	213465	1166	1.00 (0.94-1.06)
At most once per week	243701	83	0.63 (0.51-0.78)	243702	633	0.74 (0.68-0.80)	243702	356	0.90 (0.81-1.00)	243703	1275	0.96 (0.91-1.01)
2-3 times week	238931	60	0.49 (0.38-0.64)	238933	522	0.61 (0.56-0.67)	238932	330	0.89 (0.80-0.99)	238933	1187	0.97 (0.91-1.03)
More than 3 times per week	311925	135	0.82 (0.69-0.98)	311928	896	0.73 (0.68-0.78)	311929	518	1.06 (0.98-1.16)	311930	1700	1.10 (1.05-1.16)
<i>P_{heterogeneity}</i>			<.001			<.001			<.05			<.001
65-69.9												
Rarely/never	141815	98	1.00 (0.81-1.23)	141840	619	1.00 (0.92-1.09)	14817	177	1.00 (0.86-1.17)	141820	485	1.00 (0.91-1.10)
At most once per week	155983	51	0.58 (0.44-0.76)	156001	488	0.83 (0.76-0.90)	155987	156	0.91 (0.78-1.07)	155988	501	0.99 (0.91-1.08)
2-3 times week	163739	52	0.57 (0.43-0.74)	163759	462	0.70 (0.64-0.77)	163742	137	0.75 (0.63-0.89)	163743	539	0.99 (0.91-1.08)
More than 3 times per week	220148	73	0.57 (0.45-0.71)	220186	748	0.76 (0.70-0.81)	220154	253	1.00 (0.88-1.14)	220158	735	1.01 (0.94-1.09)
<i>P_{heterogeneity}</i>			<.001			<.001			<.05			.99
70+												
Rarely/never	73044	103	1.00 (0.81-1.23)	73084	913	1.00 (0.93-1.07)	73044	142	1.00 (0.84-1.19)	73052	306	1.00 (0.89-1.12)
At most once per week	74299	52	0.55 (0.42-0.72)	74326	614	0.74 (0.68-0.80)	74300	120	0.93 (0.77-1.11)	74310	276	0.93 (0.82-1.04)
2-3 times week	86178	63	0.56 (0.43-0.71)	86191	724	0.69 (0.64-0.75)	86181	102	0.67 (0.55-0.81)	86180	341	0.95 (0.86-1.06)
More than 3 times per week	118840	110	0.69 (0.57-0.84)	118889	1170	0.75 (0.71-0.80)	118832	190	0.88 (0.76-1.02)	118848	493	1.00 (0.91-1.09)
<i>P_{heterogeneity}</i>			<.001			<.001			<.05			.74

gsCI indicates group-specific confidence interval for RR; and RR indicates relative risk.

^a Adjusted for study region, age, socio-economic status, smoking, alcohol consumption, height, heart disease/thrombosis, diabetes mellitus, thyroid disease, rheumatoid arthritis/osteoarthritis, BMI and strenuous activity.

Supporting Table 12. Sensitivity analyses of adjusted^a relative risks forearm (not wrist), wrist and humerus fracture in post-menopausal women according to any activity, stratified by age-bands.

Any activity	Forearm (not wrist)			Wrist			Humerus		
	Population at risk	Incident cases	Adjusted RR (95% gsCI)	Population at risk	Incident cases	Adjusted RR (95% gsCI)	Population at risk	Incident cases	Adjusted RR (95% gsCI)
50-64.9									
Rarely/never	213461	280	1.00 (0.89-1.13)	213462	1492	1.00 (0.95-1.05)	213465	425	1.00 (0.91-1.10)
At most once per week	243702	338	1.00 (0.90-1.12)	243703	1717	0.94 (0.90-0.98)	243703	418	0.91 (0.83-1.01)
2-3 times week	238933	289	0.89 (0.79-0.99)	238936	1725	0.95 (0.91-1.00)	238933	370	0.86 (0.78-0.95)
More than 3 times per week	311925	430	1.00 (0.91-1.10)	311938	2331	0.99 (0.95-1.03)	311929	553	0.96 (0.88-1.04)
<i>P_{heterogeneity}</i>			.33			.22			.19
65-69.9									
Rarely/never	141827	161	1.00 (0.85-1.17)	141841	801	1.00 (0.93-1.07)	141823	317	1.00 (0.89-1.12)
At most once per week	155984	146	0.84 (0.71-0.99)	156007	851	0.99 (0.92-1.06)	155996	255	0.83 (0.73-0.93)
2-3 times week	163749	152	0.77 (0.66-0.91)	163764	972	0.98 (0.92-1.05)	163752	250	0.75 (0.66-0.85)
More than 3 times per week	220156	243	0.88 (0.77-1.00)	220186	1344	0.96 (0.91-1.02)	220168	409	0.88 (0.80-0.97)
<i>P_{heterogeneity}</i>			.16			.86			<.05
70+									
Rarely/never	73036	110	1.00 (0.82-1.21)	73060	634	1.00 (0.92-1.08)	73052	301	1.00 (0.89-1.13)
At most once per week	74298	102	0.95 (0.78-1.15)	74318	535	0.84 (0.77-0.92)	74315	269	0.99 (0.88-1.12)
2-3 times week	86184	130	0.97 (0.82-1.15)	86201	710	0.88 (0.82-0.95)	86190	301	0.92 (0.82-1.03)
More than 3 times per week	118831	183	0.95 (0.82-1.10)	118865	1094	0.95 (0.89-1.00)	118853	454	0.96 (0.87-1.05)
<i>P_{heterogeneity}</i>			.23			<.05			.73

heart disease/thrombosis, diabetes mellitus, thyroid disease, rheumatoid arthritis/osteoarthritis, BMI and strenuous activity.

gsCI indicates group-specific confidence interval for RR; and RR indicates relative risk.
^a Adjusted for study region, age, socio-economic status, smoking, alcohol consumption, height,